

Figure 1A

Synthetic Oligonucleotide DNA Family Encoding  
 Anti-Green Fluorescent Protein Ribozymes

1)	5'	-CCAGTTC	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACCAGGA-3'
	3'	-GGTCGAG	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGGTCCT-5'
2)	5'	-GGCGGTT	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACGTGCG-3'
	3'	-CCGGCAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGCAGCG-5'
3)	5'	-CTCGCCG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACACGCT-3'
	3'	-GAGCGGC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGTGCGA-5'
4)	5'	-GCAGATG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACTTCAG-3'
	3'	-CGTCTAC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGAAGTC-5'
5)	5'	-TGATCAC	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AGGCTGG-3'
	3'	-ACCAATG	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TCCCAAC-5'
6)	5'	-AGCGGCT	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AGGCACT-3'
	3'	-TCGGCGA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TCCGTGA-5'
7)	5'	-CATGGCG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACTTGAA-3'
	3'	-GTACCGC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGAACCT-5'
8)	5'	-GCTCCTG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACGTAGC-3'
	3'	-CGAGAC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGCATCG-5'
9)	5'	-CGTCCTT	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AGAAGA-3'
	3'	-GCAGGAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TTCCTCT-5'

Figure 1B

Synthetic Oligonucleotide DNA Family Encoding  
 Anti-Green Fluorescent Protein Ribozymes

10)	5'	-CGCCCTC	C	TGA	ATC	GTC	GAG	GAC	GAC	GAA	AACTCA-3'
	3'	-GCGGGAG	G	ACT	ACT	CAG	GCA	CTC	CTG	CTT	TTCAAGT-5'
11)	5'	-TGGGTT	C	TGA	ATC	GTC	GAG	GAC	GAC	GAA	ACGAGG-3'
	3'	-ACGCCAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTT	TGCTCC-5'
12)	5'	-CCTCCTT	C	TGA	ATC	GTC	GAG	GAC	GAC	GAA	AACTCA-3'
	3'	-GGAGGAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTT	TTCAAGT-5'
13)	5'	-GTAGTTG	C	TGA	ATC	GTC	GAG	GAC	GAC	GAA	ACTCCAG-3'
	3'	-CATCAAC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTT	TGAGTC-5'
14)	5'	-TGATATA	C	TGA	ATC	GTC	GAG	GAC	GAC	GAA	ACGTTGT-3'
	3'	-ACTATAT	G	ACT	ACT	CAG	GCA	CTC	CTG	CTT	TGCAACA-5'
15)	5'	-GGATCTT	C	TGA	ATC	GTC	GAG	GAC	GAC	GAA	AACTCA-3'
	3'	-CCTAGAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTT	TTCAAGT-5'
16)	5'	-GGTCGGC	C	TGA	ATC	GTC	GAG	GAC	GAC	GAA	AGCTGCA-3'
	3'	-CCAGCCG	G	ACT	ACT	CAG	GCA	CTC	CTG	CTT	TGACGT-5'
17)	5'	-GCAGCAG	C	TGA	ATC	GTC	GAG	GAC	GAC	GAA	ACGGGG-3'
	3'	-CGTCGTC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTT	TGCCCCG-5'
18)	5'	-CAGGGCG	C	TGA	ATC	GTC	GAG	GAC	GAC	GAA	ACTGGGT-3'
	3'	-GTCCCGC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTT	TGACCCA-5'

Figure 1C

Synthetic Oligonucleotide DNA Family Encoding  
 Anti-Green Fluorescent Protein Ribozymes

19)	5'	-CCAGCAG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACCATGT	-3'
	3'	-GGTCGTC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGGTACA	-5'
20)	5'	-CCATGCC	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AGAGTGA	-3'
	3'	-GGTAGCG	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TCTCACT	-5'

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A.

pGEM-Sca/Pvu  
 pGEM-oligo1/3

AGT ACT TTC GGC ATC ACT GCC TCA TCA TCA GCT GGG  
 AAG CTT TTC GGC ATC ACT GCC TCA TCA AGA ATT CGG

B.

pGEMEX-Sma/Kpn

GCC AGT ACC GAT GGA GGC AGT GAT GCC GAA CCC GGG GGC CCG  
 CCG TCA TGG GCT ACT CCG TCA CTA CGG CTT GGG CCC CCG GGC

pGEMEX-oligo2/3

CCG AAT TCT TGA TGA GGC AGT GAT GCC GAA AAG CTT GGC CCG  
 GGC TTA AGA ACT ACT CCG TCA CTA CGG CTT TTC GAA CCG GGC

Fig. 2

Clone 1: CGG GCC AAG CTT TTC GGC ATC ACT GCC TCA TCA GGA ATT CGG CCG CAT GCA  
 Clone 2: CGG GCC AAG CTT TTC GGC ATC ACT GCC TCA TCA GGA ATT CGG CCG CAT GCA  
 Clone 3: CGG GCC AAG CTT TTC GGC ATC ACT GCC TCA TCA GGA ATT CGG CCG CAT GCA  
 pGEMEX: CGG GCC CTC TAG ATG CCG CAT GCA

Fig. 3

Clone 1: GGC CTG CAA AGC TTT TCG GCA TCA CTG CCT CAT CAG GAA TTC GGC CTG CAT AAG CTT  
 Clone 2: GGC TG CAA AGC TTT TCG GCA TCA CTG CCT CAT CAG GAA TTC GGC CTG CAT AAG CTT  
 Clone 3: GGC CTG CAA AGC TTT TCG GCA TCA CTG CCT CAT CAG GAA TTC GGC CTG CAT AAG CTT  
 pGEMEX: GGC CGC A TG CAT AAG CTT

Fig. 4

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